

Datasheet for ABIN107861
anti-SERPINA1 antibody

3 Images



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Overview

Quantity:	100 µg
Target:	SERPINA1
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Alpha-1-Anti-Trypsin Antibody
Immunogen:	Immunogen: a1-Anti-Trypsin [Human Plasma] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified a1-Anti-Trypsin [Human Plasma].
Characteristics:	Synonyms: goat anti-Alpha-1-Trypsin Antibody, A1AT antibody, AAT antibody, Alpha 1 antiproteinase antibody, Alpha 1 antitrypsin antibody, Alpha 1 protease inhibitor antibody
Purification:	Anti-ALPHA-1-ANTI-TRYPSIN is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.

Target Details

Target:	SERPINA1
Alternative Name:	SERPINA1 (SERPINA1 Products)
Background:	Background: Alpha-1-Antitrypsin (AAT) is an inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. It irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin. Short peptide from AAT is reversible chymotrypsin inhibitor. It also inhibits elastase, but not trypsin. Its major physiological function is the protection of the lower respiratory tract against proteolytic destruction by human leukocyte elastase (HLE).
Gene ID:	5265
NCBI Accession:	NP_000286
UniProt:	P01009

Application Details

Application Notes:	<p>Application Note: Anti-Alpha-1-Anti-trypsin Antibody has been tested by ELISA and western blot. This product has been assayed against 1.0 µg of Alpha-1-Anti-trypsin [Human Plasma] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid])) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:2,000 to 1:10,000 of the reconstitution concentration is suggested.</p> <p>Western Blot Dilution: 1:2,000 - 1:10,000</p> <p>ELISA Dilution: 1:20,000 - 1:100,000</p> <p>Other: User Optimized</p>
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	10.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None

Handling

Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

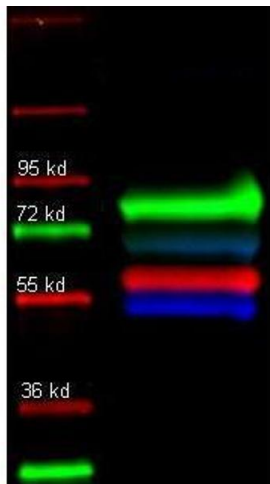
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

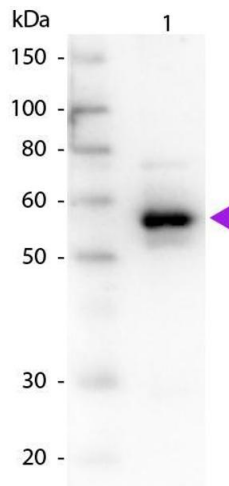
Expiry Date: 12 months

Images



Western Blotting

Image 1. Western Blot of goat anti-Alpha 1 anti trypsin antibody. Lane 1: molecular weight. Lane 2: Human transferrin (green); Alpha 1 anti trypsin (red); and Human IgG (Blue) in a multiplex fluorescent western blot of human serum. Load: 35 µg per lane. Primary antibody: Each primary antibody was diluted to 1:1000 for overnight at 4°C. Secondary antibody: Rabbit IgG (H&L) Antibody 649 Conjugated (green), Goat IgG (H&L) Antibody 549 Conjugated (red), Mouse IgG (H&L) Antibody 488 Conjugated (blue) secondary antibody at 1:10,000 for ~ 1hr at 4 degrees. Block: IRdye blocking buffer (ABIN925618) overnight at 4°C



Western Blotting

Image 2. Western Blot of Goat anti-Alpha-1-Anti-Trypsin antibody. Lane 1: Albumin depleted human serum. Lane 2: none. Load: ~10 µg per lane. Primary antibody: none. Secondary antibody: Peroxidase goat secondary antibody at 1:1,000 for 60 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 52 kDa, 52 kDa for Alpha-1-Anti-Trypsin. Other band(s): none



Western Blotting

Image 3. Western Blot of Anti-Trypsin Polyclonal Antibody-Multiplex Fluorescent Western blot. Lane 1: molecular weight. Lane 2: Alpha-1-Anti-Trypsin (red), Rabbit anti-Transferrin, and Mouse-a-GST were used in a multiplex system to detect target proteins under reducing conditions in albumin depleted human serum with 320 ng of added GST. Load: 35 µg per lane. Primary antibody: Each primary antibody at 1:1000 for overnight at 4°C. Secondary antibody: DyLight549 Donkey anti-Rabbit IgG (green), DyLight 488 Donkey anti-Mouse IgG (blue), and DyLight 649 Donkey anti-Goat IgG (red) secondary antibody at 1:10,000 for 30 min at RT. Block: ABIN925618 at 30 min RT